2006-08 ENGINE

Fan Controls (K20Z3) - Civic (All Except Si)

COMPONENT LOCATION INDEX

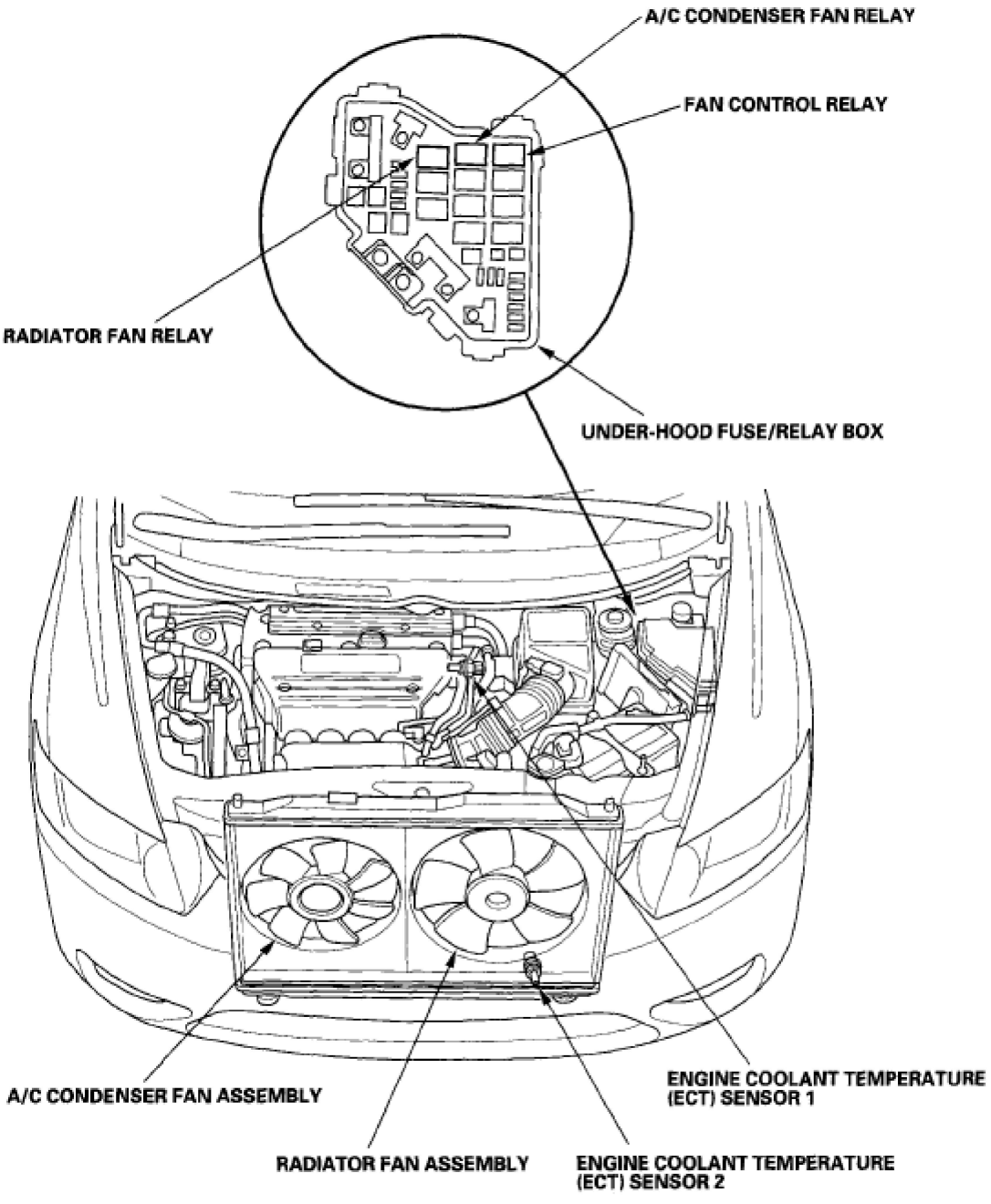
A/C CONDENSER FAN RELAY
FAN CONTROL RELAY
RADIATOR FAN RELAY
UNDER-HOOD FUSE/RELAY BOX
A/C CONDENSER FAN ASSEMBLY
ENGINE COOLANT TEMPERATURE (ECT) SENSOR 1
RADIATOR FAN ASSEMBLY
ENGINE COOLANT TEMPERATURE (ECT) SENSOR 2

Fig. 1: Identifying A/C Condenser Fan Relay And Radiator Fan Relay
Courtesy of AMERICAN HONDA MOTOR CO., INC.

SYMPTOM TROUBLESHOOTING INDEX

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Symptom	Diagnostic Procedure	Also check for
Engine overheats	1. Check the coolant level. 2. Check for any engine coolant leakage (from gaskets, hoses, O-rings, etc.). 3. Check for dirt, leaves, or insects on radiator and condenser. 4. Check for deteriorated coolant. 5. Check for a damaged or deformed fan shroud. 6. Inspect the fan motors (see **FAN MOTOR TEST**) or fan relays (see **POWER RELAY TEST**). 7. Check the radiator cap (see **RADIATOR CAP TEST**). 8. Check the thermostat (see **FAN MOTOR TEST**). 9. Inspect the water pump (see **WATER PUMP INSPECTION**). 10. Check for a plugged or deteriorated radiator hoses. 11. Check for plugged heater core or hoses. 12. Check for a damaged cylinder head gasket.	
The A/C condenser fan runs at low speed, but it does not run at high speed	A/C condenser fan high speed circuit troubleshooting (see **A/C**	Cleanliness and tightness

when the engine coolant temperature is above 199 ° F (93 °C)	**CONDENSER FAN HIGH SPEED CIRCUIT TROUBLESHOOTING**).	of all connectors
With the A/C off and the engine coolant temperature at 199 °F (93 °C) or below, the radiator fan runs at high speed and the A/C condenser fan does not run. When the engine coolant temperature is above 199 °F (93 °C), both fans run at high speed	Remove the fan control relay, and test. • If the relay is faulty, replace it. • If the relay is OK, check for a short in the wire between the fan control relay 5P socket terminal No. 1 and radiator fan motor 2P connector terminal No. 1.	Cleanliness and tightness of all connectors
Both the radiator fan and the A/C condenser fan run at high speed with the ignition switch ON (II), the A/C off, and the engine coolant temperature below 194 °F (90 °C)	Check for short in the wire between A/C condenser fan relay 4P socket terminal No. 3 and ECM connector terminal A5.	Cleanliness and tightness of all connectors
Both the radiator fan and the A/C condenser fan run at low speed with the ignition switch ON (II) and the A/C off	Check for short in the wire between radiator fan relay 4P socket terminal No. 4 and ECM connector terminal A4.	Cleanliness and tightness of all connectors
Both the radiator fan and the A/C condenser fan do not run at low speed with the A/C on	Radiator and A/C condenser fans low speed circuit troubleshooting (see **RADIATOR AND A/C CONDENSER FAN LOW SPEED CIRCUIT TROUBLESHOOTING**).	Cleanliness and tightness of all connectors
Both the radiator fan and the A/C condenser fan run at low speed, but the radiator fan does not run at	**RADIATOR FAN HIGH SPEED CIRCUIT TROUBLESHOOTING**	Cleanliness and tightness

high speed when the engine coolant temperature is above 199 °F (93 °C)	(see).	of all connectors
Both the radiator fan and the A/C condenser fan do not run at high speed when the engine coolant temperature is above 199 T (93 °C)	Check for open in the wire between A/C condenser fan relay 4P socket terminal No. 3 and ECM connector terminal A5.	Cleanliness and tightness of all connectors

CIRCUIT DIAGRAM

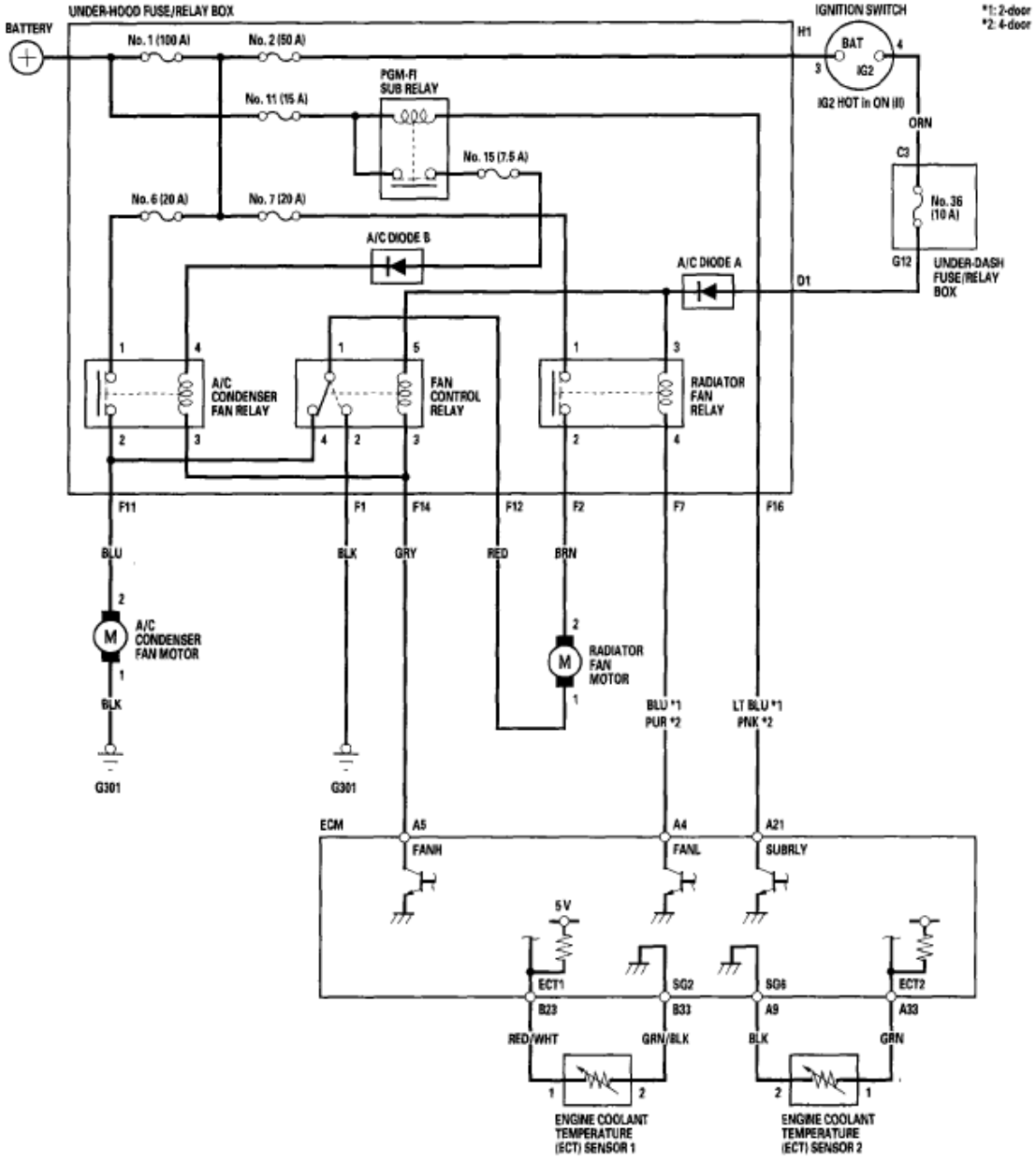

Fig. 2: Fan Controls Circuit Diagram
Courtesy of AMERICAN HONDA MOTOR CO., INC.

RADIATOR FAN HIGH SPEED CIRCUIT TROUBLESHOOTING

1. Remove the fan control relay from the under-hood fuse/relay box, and test it (see **POWER RELAY TEST**).

   Is the relay OK?

YES -Go to step 2.

NO -Replace the fan control relay.

2. Check the No. 36(10 A) fuse in the under-dash fuse/relay box.

   Is the fuse OK?

   YES -Go to step 3.

   NO -Replace the fuse.

3. Turn the ignition switch ON (II).
4. Measure the voltage between the fan control relay 5P socket terminal No. 5 and body ground.

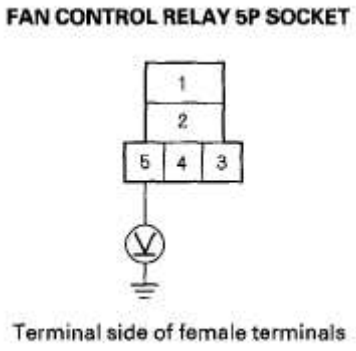

Fig. 3: Measuring Voltage Between Fan Control Relay 5P Socket Terminal 5 And Body Ground
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there battery voltage?

YES -Go to step 5.

NO -Repair open in the wire between the under-hood fuse/relay box and the under-dash fuse/relay box.

5. Turn the ignition switch to LOCK (0).
6. Check for continuity between the fan control relay 5P socket terminal No. 2

and body ground.

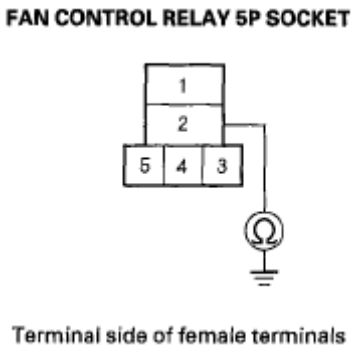

Fig. 4: Checking For Continuity Between Fan Control Relay 5P Socket Terminal 2 And Body Ground
Courtesy of AMERICAN HONDA MOTOR CO., INC.

Is there continuity?

YES -Replace the under hood fuse/relay box.

NO -Repair open in the wire between the fan control relay 5P socket terminal No. 2 and body ground (G301). If the wire is OK, check for poor ground at G301.